

Title (en)

REGULATION SYSTEM FOR THE SHORT CIRCULATION AND HEADBOX OF A PAPER MACHINE OR EQUIVALENT

Title (de)

REGELSYSTEM FÜR DEN KURZEN UMLAUF UND STOFFAUFLAUF IN EINER PAPIERMASCHINE ODER DERGLEICHEN

Title (fr)

SYSTEME DE REGLAGE POUR CIRCULATION COURTE ET CAISSE D'ARRIVEE D'ALIMENTATION D'UNE MACHINE A PAPIER OU SIMILAIRE

Publication

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Application

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Abstract (en)

[origin: WO0121885A1] The present invention relates to a method for measuring and controlling the short circulation of a paper machine or equivalent and measurement and control of the headbox, said short circulation comprising apparatus for diluting thick stock into the headbox consistency, and apparatus for cleaning the stock to be fed into the headbox, and in which the headbox (10) comprises a stock inlet header, a tube bank, a turbulence generator and a slice channel. In the method, the measurement targets (PA, PB, PC, PD, 10) are provided with means for measuring the fibre mobility of the fibre suspension and, on the basis of the fibre mobility measured from the fibre suspension, the flow state of the fibre suspension is controlled. The invention also concerns the headbox (10) of a paper machine or equivalent, comprising a stock inlet header, a tube bank, a turbulence generator and a slice channel. In addition, the headbox comprises sensors on the width of the headbox (10) or a traversing sensor/sensors, which is/are positioned on different width points of the headbox (10) and that the sensor/sensors is/are arranged to measure the fibre mobility profile of the headbox and that the headbox (10) comprises means for changing the flow state on the basis of the measurement data obtained from the sensors. The invention also relates to a short circulation of a paper machine or equivalent, comprising apparatus for diluting the thick stock into headbox consistency and units for cleaning the stock to be fed into the headbox. The short circulation comprises also a sensor/sensors, being disposed in the short circulation pipes and/or cleaning units and that the sensor/sensors is/are arranged to measure the fibre mobility of the fibre suspension in the short circulation, and that the short circulation includes means for changing the flow state on the basis of the measurement data obtained from the sensors.

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